

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20040150453").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:13
S2	9163	(375/371 or 375/373 or 375/226 or 375/294 or 375/327 or 375/375 or 327/147 or 327/148 or 327/149 or 327/150 or 327/151 or 327/152 or 327/153 or 327/154 or 327/155 or 327/144 or 327/156 or 327/157 or 327/158 or 327/159 or 327/161 or 327/244 or 327/307).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 12:34
S3	256	S2 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 11:17
S4	159	S2 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor and (phase adj detector)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 11:17
S5	56	S2 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor and (phase adj detector) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 12:35
S6	2	("5799048").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:27

## EAST Search History

S7	2	("6275072").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:27
S8	10	("5260608"   "5278702"   "5432481"   "5514990"   "5786715").PN. OR ("6275072"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/29 11:33
S9	2	("6316987").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:34
S10	2	("6937073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:40
S11	2	("6650720").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:40
S13	2	("6151282").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:46
S14	2	("6608875").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:50

## EAST Search History

S15	2	("6476656 ").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 11:50
S16	8	S2 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor and ((two or second) adj phase adj detector) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 12:37
S19	2	("6275072").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 12:21
S20	11889	(375/371 or 375/373 or 375/226 or 375/294 or 375/327 or 375/375 or 327/147 or 327/148 or 327/149 or 327/150 or 327/151 or 327/152 or 327/153 or 327/154 or 327/155 or 327/144 or 327/156 or 327/157 or 327/158 or 327/159 or 327/161 or 327/244 or 327/307 or 331/156 or 331/157 or 331/157 or 331/158 or 331/159).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 12:35
S21	56	S20 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor and (phase adj detector) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 12:35
S22	66	S20 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor and (phase adj (compar\$4 or detector)) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 12:36

## EAST Search History

S23	11	S20 and (phase adj (offset or error or timing or shift or deviation)) and mirror and capacitor and ((two or second) adj phase adj (compar\$4 or detector)) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 13:29
S24	2	("6680654").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 12:43
S25	2	("5699387").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 13:20
S26	2	("6690225").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 13:20
S27	7	("6005431"   "6211716").PN. OR ("6690225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/29 13:26
S28	2	("6806688").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 13:27
S29	2	("6002732").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 13:28

## EAST Search History

S30	2	("5166641").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 13:28
S31	104	S20 and (phase adj (spacing or offset or error or timing or shift or deviation)) and ((two or second or plurality) adj (phase or timing) adj (compar\$4 or detector)) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 13:41
S32	2	("6362693").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 13:33
S33	57	S31 and capacitor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 13:34
S34	113	S20 and (phase adj (spacing or offset or error or timing or shift or deviation)) and ((two or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) and (adjust\$4 near4 delay)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 14:58
S35	2	("5347233").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 14:06
S36	151	S20 and (subtract\$4 with (phase adj differences))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 14:07

## EAST Search History

S37	5	S20 and (subtract\$4 with (phase adj differences)) and mirror	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 14:07
S38	7	("4633193"   "5072195"   "5422604"   "5566204"   "5610558"   "5646562"   "6150887").PN. OR ("6859079"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/29 14:09
S40	2	("6316987").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 14:39
S41	2	("6556628 ").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 14:54
S42	2	("5699387").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 14:54
S44	81	S20 and (phase adj (spacing or offset or error or timing or shift or deviation)) and ((two or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) and (charg\$4 adj pump)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 16:27
S45	2	("6430244").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 15:04

## EAST Search History

S46	74	S20 and (phase adj (spacing or offset or error or timing or shift or deviation)) and ((two or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:04
S47	789	S20 and (phase adj (spacing or offset or error or timing or shift or deviation)) and (phase or timing) adj (compar\$4 or detect\$4) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 16:30
S48	746	S47 and (sum\$4 or adding or adder or subtract\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 16:29
S49	156	S20 and (phase adj (spacing or offset or error or timing or shift or deviation)) and ((phase or timing) adj (compar\$4 or detect\$4) same (sum\$4 or adding or adder or subtract\$4)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 16:52
S50	66	S49 and pairs	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 16:31
S51	139	S20 and (phase adj (spacing or difference or offset or error or timing or shift or deviation)) and ((two or multiple or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:29

## EAST Search History

S52	2	("4870303").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 16:45
S53	2	("6140853").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 16:46
S54	2	("6078634").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/29 16:46
S55	9	S20 and (phase adj (spacing or difference or offset or error or timing or shift or deviation)) and (((two or multiple or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) same (sum\$4 or adding or adder or subtract\$4)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/29 16:54
S56	6	("5072195"   "5075639"   "5657359"   "5734301"   "5909474"   "6693862").PN. OR ("7065025").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/29 17:00
S57	2	("6573769").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 06:51
S58	2	("6489852").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 06:58



## EAST Search History

S59	2	("6348287").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 06:59
S60	2	("6570425").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 06:59
S61	4	("6111445"   "6114914"   "6380783").PN. OR ("6570425"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 07:02
S62	5	("5986949"   "6052011"   "6104228"   "6191632"   "6570425").PN. OR ("6940331"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/30 07:06
S65	2	("6111445").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 07:19
S68	193	(phase adj (spacing or offset or error or timing or shift or deviation)) and ((two or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator)) and (sum\$4 or add\$3 or compar\$4 or subtract\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:59
S69	120	(phase adj (spacing or offset or error or timing or shift or deviation)) and (((two or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) same (sum\$4 or add\$3 or compar\$4 or subtract\$3)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:12

## EAST Search History

S71	84	S69 and clock and synchroniz\$5 and delay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:18
S72	879	"4276594" "4290022" "4297650" "4319200" "4338574" "4382248" "4443821" "4527075" "4538285" "4580169" "4604652" "4821297" "4918709" "5182761" "5210700" "5212407" "5223727" "5224125" "5301210" "5302920" "5334868" "5345239" "5388249" "5394443" "5399984" "5412694" "5436939" "5485195" "5488010" "5491729" "5502750" "5506520" "5506982" "5532633" "5630100" "5640547" "5726651" "5742650" "5745535" "5761488" "5771375" "5793250" "5867541" "5905769" "5943379" "5948046" "5974560" "5982309" "6014417" "6104228"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:20
S73	2	("6104228").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:21
S74	2	("6014417").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:21
S75	2	("5982309").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:22

## EAST Search History

S76	4	((("5948046") or ("5974560"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:22
S77	4	((("5905769") or ("5943379"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:22
S78	90	((("4276594") or ("4290022") or ("4297650") or ("4319200") or ("4338574") or ("4382248") or ("4443821") or ("4527075") or ("4538285") or ("4580169") or ("4604652") or ("4821297") or ("4918709") or ("5182761") or ("5210700") or ("5212407") or ("5223727") or ("5224125") or ("5301210") or ("5302920") or ("5334868") or ("5345239") or ("5388249") or ("5394443") or ("5399984") or ("5412694") or ("5436939") or ("5485195") or ("5488010") or ("5491729") or ("5502750") or ("5506520") or ("5506982") or ("5532633") or ("5630100") or ("5640547") or ("5726651") or ("5742650") or ("5745535") or ("5761488") or ("5771375") or ("5793250") or ("5867541"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:23
S79	11889	(375/371 or 375/373 or 375/226 or 375/294 or 375/327 or 375/375 or 327/147 or 327/148 or 327/149 or 327/150 or 327/151 or 327/152 or 327/153 or 327/154 or 327/155 or 327/144 or 327/156 or 327/157 or 327/158 or 327/159 or 327/161 or 327/244 or 327/307 or 331/156 or 331/157 or 331/157 or 331/158 or 331/159).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:29

## EAST Search History

S80	216	S79 and equa\$3 near3 (phase adj differences)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:30
S81	88	S79 and equa\$3 near3 (phase adj differences) same (sum\$4 or add\$3 or compar\$4 or subtract\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 10:30
S83	2	("6166581").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 10:58
S84	9	(phase adj (spacing or offset or error or timing or shift or deviation)) and ((two or second or plurality) adj (phase or timing) adj (compar\$4 or detect\$4)) and (charg\$4 adj pump) and (multi\$1phase or PLL or DLL or (ring adj oscillator)) and (sum\$4 or add\$3 or compar\$4 or subtract\$3) and (equa\$3 near3 (phase adj differences))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/30 12:24
S86	2	("5638410").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:25
S87	2	("6285172").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:25

## EAST Search History

S88	2	("6323910").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:25
S89	2	("5329251").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:26
S90	3	("6510013").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:28
S91	9	((("5389897") or ("5940608") or ("6340904") or ("6058152") or ("4479216"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:31
S92	2	("20020031199").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:31
S93	2	("6822925").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 12:32
S94	2	("5644743").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/30 13:49

## EAST Search History

S96	1	("7183864").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:10
S97	3	("6411669"   "6650190"   "6901126").PN. OR ("7183864"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/02 09:12
S98	2	("5799048").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:12
S99	2	("6275072").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:12
S10 0	2	("6316987").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:14
S10 1	2	("5994934").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:14
S10 3	2	("6937073").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:18

## EAST Search History

S10 4	2	("20030086339").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/02 09:22
S10 5	170	(((second or two) adj (phase adj (differences or detectors or comparators))) with (sum\$4 or add\$3 or combin\$4 or subtract\$4)) and (multi\$1phase or PLL or DLL)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/02 10:48
S10 6	92	S105 and phase adj (error or shift or deviation or offset)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/02 09:29
S10 7	18	(((second or two) adj (phase adj (differences or detectors or comparators))) same (sum\$4 or add\$3 or combin\$4 or subtract\$4)) and (multi\$1phase) and phase adj (error or shift or deviation or offset) and clock	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/02 10:50